EV01 Push-Pull High-Power EV Connectors, 30 to 300 A

30–300 A · IP67 · 5000 cycles · push-pull



Current rating	30–300 A
Contacts	1, 2 or 3
Withstanding voltage	3000 VAC
Protection	IP67 (mated)
Mating cycles	≥ 5000

Key features

- Push-pull coupling, low mating force
- Crown-spring contacts Ø 3.6 to Ø 14 mm
- Rated 30 A (Ø 3.6) to 300 A (Ø 14); peak up to 400 A
- Five color-coded key positions
- EMI shielded shells: nickel, black or blue anodized, or painted
- Crimp (10–95 mm²), bus-bar or through-hole terminations; harness assemblies to order

Specifications

Electrical

Parameter	Value	Condition
Rated current	30–300 A	By contact size
Withstanding voltage	3000 VAC	
Contact resistance	≤ 0.3 mΩ	
Insulation resistance	≥ 3000 MΩ	

Mechanical and environmental

Parameter	Value	Condition
Durability	≥ 5000 mating cycles	
Vibration	10–500 Hz, 196 m/s²	Interruption ≤ 1 µs
Shock	294 m/s², 11 ms	Interruption ≤ 1 µs
Operating temperature	−55 to +125 °C	
Protection	IP67	Mated
Salt spray	48 h	
Flammability	UL94 V-0	
RoHS	Compliant	

Contact sizes

Contact Ø	Cable	Rated current	Max. current
3.6 mm	10/16 mm²	30 A	80 A
6 mm	16/20/25 mm²	95 A	140 A
8 mm	25/35/50 mm²	140 A	210 A
10 mm	35/50/70 mm²	175 A	275 A
12 mm	50/70/95 mm²	230 A	340 A
14 mm	50/70/95 mm²	300 A	400 A

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=EV01